- providing a second interaction layer that is responsive when the user input comprises a second pressure comprising a second threshold.
- 2. The method of claim 1, wherein either the first or second threshold comprises a threshold based on one of: an amount of pressure, a duration of pressure or a frequency of pressure.
- 3. The method of claim 1, wherein an identity of a type of touch or tap at the affordance layer determines one of a plurality of possible functions.
- **4**. The method of claim **1**, wherein the affordance layer generates a responsive affordance layer haptic effect.
- 5. The method of claim 4, wherein the first interaction layer generates a responsive first interaction layer haptic effect that is different than the affordance layer haptic effect.
- 6. The method of claim 5, wherein the second interaction layer generates a responsive second interaction layer haptic effect that is different than the first interaction layer haptic effect.
- 7. The method of claim 5, wherein the first interaction layer haptic effect is temporary for a first pressure level or continuous through multiple pressure levels.
- 8. The method of claim 6, wherein the second interaction layer haptic effect is contextual based on a selected icon on the affordance layer.
- **9.** A computer readable medium having instructions stored thereon that, when executed by a processor, generates responses to a user input on a user interface, the generating responses comprising:
  - providing an affordance layer that is responsive when the user input comprises a touch or tap;
  - providing a first interaction layer that is responsive when the user input comprises a first pressure comprising a first threshold; and
  - providing a second interaction layer that is responsive when the user input comprises a second pressure comprising a second threshold.
- 10. The computer readable medium of claim 9, wherein either the first or second threshold comprises a threshold based on one of: an amount of pressure, a duration of pressure or a frequency of pressure.
- 11. The computer readable medium of claim 9, wherein an identity of a type of touch or tap at the affordance layer determines one of a plurality of possible functions.
- 12. The computer readable medium of claim 9, wherein the affordance layer generates a responsive affordance layer haptic effect.
- 13. The computer readable medium of claim 12, wherein the first interaction layer generates a responsive first interaction layer haptic effect that is different than the affordance layer haptic effect.
- 14. The computer readable medium of claim 13, wherein the second interaction layer generates a responsive second interaction layer haptic effect that is different than the first interaction layer haptic effect.
- 15. The computer readable medium of claim 13, wherein the first interaction layer haptic effect is temporary for a first pressure level or continuous through multiple pressure levels.

- **16**. The computer readable medium of claim **14**, wherein the second interaction layer haptic effect is contextual based on a selected icon on the affordance layer.
  - 17. A system comprising:
  - a user interface adapted to receiving a user input;
  - an affordance layer that is responsive when the user input comprises a touch or tap;
  - a first interaction layer that is responsive when the user input comprises a first pressure comprising a first threshold; and
  - a second interaction layer that is responsive when the user input comprises a second pressure comprising a second threshold.
- **18**. The system of claim **17**, wherein either the first or second threshold comprises a threshold based on one of: an amount of pressure, a duration of pressure or a frequency of pressure.
- 19. The system of claim 17, wherein an identity of a type of touch or tap at the affordance layer determines one of a plurality of possible functions.
- 20. The system of claim 17, further comprising a haptic output device, wherein the affordance layer generates a responsive affordance layer haptic effect on the haptic output device
- 21. The system of claim 20, wherein the first interaction layer generates a responsive first interaction layer haptic effect on the haptic output device that is different than the affordance layer haptic effect.
- 22. The system of claim 21, wherein the second interaction layer generates a responsive second interaction layer haptic effect on the haptic output device that is different than the first interaction layer haptic effect.
- 23. The system of claim 20, wherein the first interaction layer haptic effect is temporary for a first pressure level or continuous through multiple pressure levels.
- **24**. The system of claim **22**, wherein the second interaction layer haptic effect is contextual based on a selected icon on the affordance layer.
  - 25. (canceled)
  - 26. (canceled)
  - 27. (canceled)
  - 28. (canceled)
  - 29. The method of claim 1, further comprising:
  - receiving a first pressure-based input as a first user input; applying a first drive signal to a haptic output device according to the first pressure-based input;
  - receiving a key frame;
  - receiving a second pressure-based input as a second user input different from the first pressure-based input after the key frame; and
  - applying an interpolated second drive signal to the haptic output device based on the difference between the first pressure-based input and the second pressure-based input to provide a transitional haptic effect.

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